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<212> DNA
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<223> Description of Artificial Sequence: Primer

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<210> 4
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 4
ctgcagaatt ctaatacgac tcactatagg aagagatggc gac 43

<210> 5
<211> 28
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<220>
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<220>
<223> Description of Combined DNA/RNA Molecule: Primer

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gggacgaatt ctaatacgac tcactata 28

<210> 6
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<222> (20)..(59)
<223> variable nucleotides

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agatctcgcc atctcttcct atagtgagtc gtattag	97
<pre> &lt;210&gt; 7 &lt;211&gt; 33 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; Description of Artificial Sequence: Variant of       deoxyribozyme named 17E1 </pre>	
<400> 7 catctctttt gtcagcgact cgaaaatagtg agt	33
<pre> &lt;210&gt; 8 &lt;211&gt; 20 &lt;212&gt; DNA &lt;213&gt; Artificial Sequence  &lt;220&gt; &lt;223&gt; Description of Artificial Sequence: Synthetic Zn-DNA </pre>	
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<220> <221> modified_base <222> (8)..(10) <223> variable bases complementary to positions 2-4	
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Co-DNA sequence	
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substrate	
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substrate	
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<210> 16  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 18  
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<212> DNA  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 18  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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14

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<223> Description of Artificial Sequence: Synthetic Co-DNA

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43

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<223> Description of Artificial Sequence: Synthetic Co-DNA

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50

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<210> 27  
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<223> Description of Artificial Sequence: Synthetic Co-DNA		
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<223> Description of Artificial Sequence: Synthetic Co-DNA		
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<223> Description of Artificial Sequence: Synthetic Co-DNA		
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<223> Description of Artificial Sequence: Synthetic Co-DNA		
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<210> 33  
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<210> 34  
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<212> DNA  
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<210> 35  
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<400> 35  
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<210> 36  
<211> 50  
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<220>  
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<400> 36  
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<210> 37  
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<220>  
<223> Description of Artificial Sequence: Synthetic Co-DNA

<400> 37  
atttcttctg aatcctcaat gtttagtggac ctagtcgttag tcgatgtgac 50

<210> 38  
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<210> 39  
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<220>  
<223> Description of Artificial Sequence: Synthetic Co-DNA

<400> 39  
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<210> 40  
<211> 50  
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<223> Description of Artificial Sequence: Synthetic Co-DNA

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<210> 41  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic Co-DNA

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<223> Description of Artificial Sequence: Synthetic Co-DNA

<400> 42
ggtaagcttg gcac      14

<210> 43
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 43
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<210> 44
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 44
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<210> 45
<211> 40
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 45
ttttgtcagc gactcgaaat agtgttattgc agtagatcta      40

<210> 46
<211> 40
<212> DNA
<213> Artificial Sequence
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 46  
ttttgtcagc gactcgaaat agtgtgttac agttgcccta 40

<210> 47  
<211> 40  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 48  
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<220>  
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<210> 49  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 49  
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<210> 50  
<211> 40  
<212> DNA  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 50  
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<210> 51  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 51  
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<210> 52  
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<212> DNA  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 52  
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<210> 53  
<211> 40  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 54  
<211> 40  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 55  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<211> 40  
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<220>  
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<210> 57  
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<210> 58  
<211> 40  
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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 58  
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<210> 59  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 60  
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 61  
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<210> 62  
<211> 40  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 63  
<211> 40  
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<210> 64  
<211> 40  
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<220>  
<223> Description of Artificial Sequence: Synthetic Zn-DNA

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ttttgtcagc gactcgaaat agtgtgttga aacagctatc 40

<210> 65  
<211> 40

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<212> DNA
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 66
<211> 40
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 66
g t c a g t c a g g t a c t c g a a a a a t a g t g t t c a a g c c g c t g t c 40

<210> 67
<211> 40
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 67
t t t t g c a g c g a t c g a a a a g t t g t t g a g g c g g c t a t c 40

<210> 68
<211> 40
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<223> Description of Artificial Sequence: Synthetic Zn-DNA

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<210> 69
<211> 40
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<220>
<223> Description of Artificial Sequence: Synthetic Zn-DNA

<400> 69
t a t t g t c a g t g a c c c a a a a t a g t a t g t t g a a g c a g c t c t g 40
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<210> 71  
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substrate

<220>  
 <223> Description of Combined DNA/RNA Molecule: Synthetic chimeric

substrate

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<400> 71  
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<210> 72  
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substrate

<220>  
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substrate

<400> 72  
 ctcttcagcg atccggaacg gcacccatgt tagtga 36

<210> 73  
 <211> 19  
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 <213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic chimeric
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<220>
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      substrate

<220>
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<223> ribonucleotide base

<400> 73
tcactataag aagagatgg                                19

<210> 74
<211> 37
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 74
acacatctct gaagtagcgc cgccgtatag tgacgct                                37

<210> 75
<211> 17
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 75
ggagagagau gggugcgt                                17

<210> 76
<211> 31
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<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 76
      cgcacccagg ctagctacaa cgactctctc c          31

<210> 77
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 77
      aaguaacuag agaugga          17

<210> 78
<211> 29
<212> DNA
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<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 78
      cgcacccctcc gagccggacg aagttaactt          29

<210> 79
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric
      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric

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substrate

<220>
<221> modified_base
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<400> 79
ctcactatacg aagagatg 19

<210> 80
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<220>
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      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 80
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<210> 81
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<220>
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      substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<220>
<221> modified_base
<222> (10)
<223> ribonucleotide base

<400> 81
actcactata ggaagagatg 20

<210> 82
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic chimeric

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substrate

<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<400> 82
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<210> 83
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<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      oligonucleotide

<220>
<223> Description of Artificial Sequence: Predicted
      secondary structure of the G3 deoxyribozyme

<220>
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<222> (67)
<223> variable nucleotide

<220>
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<222> (69)..(74)
<223> variable nucleotide

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<222> (85)..(89)
<223> variable nucleotide

<400> 83
      gggacgaatt ctaatacgac tcactatagg aagagatggc gacaactttt tacccaagaa 60
      ggggtgngnn nnnnngctacn nnatnnnnnt gacggttagct tggcacc          107

<210> 84
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<220>
<223> Description of Artificial Sequence: Synthetic Co-DNA

<400> 84
cactatagga agagatggcg acatctcttg acccaagaag gggtg 45

<210> 85
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<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic chimeric
      substrate

<220>
<223> Description of Artificial Sequence: Synthetic
      chimeric oligonucleotide

<220>
<221> modified_base
<222> (22)
<223> ribonucleotide base

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tgtcaactcg tgactcacta taggaagaga tgtgtcaact cgtg 44

<210> 86
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<220>
<223> see specification as filed for detailed description of
      preferred embodiments

<400> 86
cacgagttga ca 12

<210> 87
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      oligonucleotide 17E-C

<400> 87
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```

<210> 88  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Primer

<220>  
<223> see specification as filed for detailed description of  
preferred embodiments

<400> 88  
cacgagttga ca